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ABSTRACT

A program for modifying classroom behavior of emotionally disturbed and other children (in grades 3 through 7). based on modeling is described, and specific behaviors and evaluation items for the program are provided along with their rationale. Research is reviewed in Part I and topics are covered, such as: the three effects of modeling (acquisition of a novel response, inhibition or activation of an already learned behavior, and stimulation of an observed behavior); four processes involved in observational learning (attentional, retention, motor reproduction, and incentive and motivational processes); the use of a token economy; and pre-entry skills necessary to participate in modeling behaviors (auditory acuity, visual acuity, and ability to decode English words into appropriate syntax and literal meaning). For each behavior specified in Part II, information is usually given on what the child is observing, the level of development involved in the activity, and examiner observations used to evaluate the pelicitor. (SB)

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OBSERVATIONAL LEARNING: A BEHAVIORAL APPROACH

FOR USE IN THE CLASSROOM

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December, 1975

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Part I

Review of pertinent reseacin

Purpose of paper

Most educators and psychologists would agree that one of the fundamental modes of changing behavior involves modeling and observational learning.

Research conducted within the framework of social-learning theory (Bandura, 1965a; Bandura and Walters, 1963) demonstrates that many learning phenomena resulting from direct experiences can occur on a vicarious basis through observation of other persons' behavior and its consequences for them. This is to say that much of what we learn has been learned through observing the environment and the persons operating within the specific environment. Emotional responses that are put forth by persons have been conditioned by those experiences of others undergoing pain and pleasure that have been witnessed.

It appears then from research that one's responses can be success, ally modified through the observation of influential models. Modeling, therefore, appears to be an appropriate approach in modifying a youngster's behavior and in directing the youngster toward the internalization of the value of a specific behavior or set of behaviors that will bring about an optimal time for teacherdirected academic instruction.

There is much empirical evidence that points out that modeling has three clearly different effects that are brought about by three different sets of variables (Bandura, 1965a; Bandura and Walters, 1963):

 As a result of modeling, a person can acquire a behavior that did not previously exist in his repertoire; this is called a novel response;

- 2. As a person observes the influential model, he may become more or less inhibited in performing a behavior or a set of behaviors that are presently in his repertoire but that he has, up until this point, been afraid to express; this effect of modeling can work in the opposite direction also: a person can become more inhibited in performing a behavior or a set of behaviors after observing the behavior pattern of an influential model;
- of others serves as a stimulus for the observer to engage in the behavior; no new responses are actually acquired.

 An example of the response facilitation effect can be described in the set of behaviors that occurs when one youngster in a classroom asks to get a drink of water and another youngster also tends to ask to get a drink of water, having observed the behavior of the first youngster; no new responses on the part of the observer (the second youngster, in this case) are actually acquired.

The program that will follow is based on the assumption that observational learning can effect significant positive behavioral changes in a youngster.

The program is designed to aid teachers in utilizing this powerful tool of instruction, namely; modeling. Most educators would agree that optimal learning

takes place when the youngster involved is committed to the instructional objectives that the teacher has designed for him. Every youngster who works toward those instructional objectives does so because he thinks that there is some reward that is forthcoming as a function of the behaviors he performs. Many youngsters that are in elementary school have already internalized the value of working toward those instructional objectives that are put forth by the teachers. These are youngsters that are perhaps more self-regulating and self-motivated. Other youngsters work toward the instructional objectives because they seek the approval of peers, parents, teacher. On the other hand, there are youngsters who are not working toward the instructional objectives because they have not found that such behaviors are rewarding to them.

The program to be described developed as an outgrowth of a token economy where children were reinforced for their positive behavior by earning tokens which they could cash in for rewards of their own choosing. The following program delineates the behaviors a youngster must perform in order to decide to perform the behaviors that will assure the earning of a token. To decide to earn the token incorporates the decision to perform the behavior that will earn the token. This behavior is a necessary pre-entry skill that a youngster must achieve in order to begin the process of the internalization of the value of working toward the instructional objectives that have been specified by the classroom teacher.

There are four processes involved in observational learning that

will be addressed in this program.

The attentional processes are influential in determining which modeling stimuli will be attended to and which will not be attended to. Models who are most influential will receive most attention. What makes a good model is based upon the stimulus of the model as well as the perception of the observer viewing the model (that perception is based on the observer's previous experience).

Retention processes involve the ability of the youngster to store in his memory the behavior of the model and at a later appropriate point to retrieve the behavior for appropriate use. Two operations are involved here: rehearsal behavior (the observer practices the model's behavior) and symbolic coding operation (observer organizes and classifies elements of the model's behavior into constructs that are easily stored). The first operation provides the opportunity for the second operation to occur, although the second operation can occur independently: the rehearsal behavior provides the observer with additional time to code the model's behavior.

Mot or reproduction processes involves the capability of the youngster to reproduce the motor chains he has observed the model performing.

Incentive and motivational processes involve the use of positive incentives to translate observational learning into action. The incentive that will be used in the program is the token which can be translated into rewards of the youngster's choosing. In 1965 (), Bandura conducted a study which focused on matching behaviors. After a positive incentive was given to the youngsters,

to that occurrence, when no incentive was given, to the youngsters to perform what they had observed, a significantly smaller number of appropriate responses occurred. This study forther points out that positive incentives result in significantly greater performances of what was observed and learned.

The question still remains: how does the child arrive at the point where he says, "I want to behave the same way so I too can earn a token?" The purpose of this paper is to cite the behaviors and evaluation items that are necessary for a child to model another child who is earning a token for stating that he wants to begin working on the contract that the teacher has constructed for him. When one cites all the behaviors that are necessary to model the above behavior, one must consider not only affective behaviors but the overlap that exists between cognitive and affective domains. In the behavior schedule that follows, the child is called upon to perform behaviors in both domains in order to model the first youngster's behavior.

The program is designed for intermediate youngsters (grades 3 through 7). Although the program brings about significant behavioral changes when applied to youngsters who are experiencing emotional difficulties, it has also been very successful when applied in regular classes in a suburban school system. The optimal number of participants in the special class for emotionally handicapped is ten persons, including one teacher, one paraprofessional, and eight youngsters. In a regular classroom setting, the program has been suc-

cessfully applied with as many as fifteen persons including one teacher and fourteen youngsters. The program has developed around a behavior modification concept reinforcing positive behaviors. Essential to the program is an introductory discussion circle that occurs as the first activity in the classroom Generally, the youngsters and the teacher and teacher aide, if one is present, place their chairs in the formation of a circle. In the circle, the teacher greets the children, discusses any items of information that she feels are important and asks the children if there are any items of information that they would like to discuss with the class. After approximately fifteen to twenty minutes of discussion, the teacher no longer encourages discussion and res ponds to questions in very short sentences. The children become restless and generally ask what they should do now. The teacher's response is: "we can remain in the circle until someone wants to begin his work for the day. If someone would like to earn a token, he can say that he wants to begin work and I will give him a token for doing so." The extension of this positive incentive encourages the youngsters to make the appropriate statements. The behaviors that follow deal with the experience of the youngster who is about to model his classmate's behavior in making the statement that he also would like to earn a token and begin work. The focus of this paper is the description of the behaviors that are necessary for a youngster to model the other youngster's behavior. The situation that permits the modeling experience is a child viewing an influential model who has been rewarded with a token for making

a statement that he wants to begin working.

The pre-entry skills that are necessary to participate in the behaviors that follow include:

auditory acuity: the child can hear what is spoken in the room;
visual acuity: the child can see what is occurring in the room;
ability to decode English words into appropriate syntax and 'literal meaning: the child can understand English at a level appropriate to an eight year old child.

The behaviors that are identified will take the reader through the varied and multiple processes that are involved in modeling a set of behaviors. Robert Gagne's analysis of the eight levels of instruction and learning form the framework for the behaviors to be identified. The behaviors will be specified one by one, identifying the observations the child is making, as well as his discrimination, attachment of meaning, categorizations, development of hierarchial constructs of motor and verbal chains in both the affective and cognitive domains and the matching and re-matching operations that occur extensively before modeling will in fact take place. Although these operations will take place on paper as discrete occurrences, they in fact happen rather simultaneously as the child is observing the event. For the sake of clarification of the behaviors that are involved in the notation of the overall modeling behavior, it becomes necessary to separate them in the way that has been the cribed above. Once

haviors at the 1.0 level (willingness to receive stinuli). Movement in Krathwohl's organization will bring the youngster closer to the internalization of the ultimate worth of the modeling behaviors for reasons of intrinsic value measured against the youngster's value system. The behaviors to be described intend to bring the child to the point where he can operate effectively at 1.0 level of Krathwohl's taxonomy of affective behaviors.

Part II

Identification of specific behaviors and evaluation items

Rationale

RATIONALE

Child observes the environment.

happy. Child observes a child who is

unhappy. Child observes a child who is

unaffected Child observes a child who is

the group is (are) happy. Child observes an adult(s) in

the group is (are) unhappy. Child observes an adult(s) in

the group is (are) unaffected. Child observes an adult(s) in

child, "You have earned a toker for your behavior." the group has said to another Child observes that an adult in

"Yes, you have earned a token." adult in the group has said, Child observes that another

adult has said nothing to the other child. Child observes that another

dren in the group who are affected by the first child's behavior. Child observes some other chil-

he has not begun to process taking in what he has seen reached the discrimination pressions. He has not connected to the facial exthe motor chains that are group. He is observing that are apparent in the serving the motor chains At this point the child is ob it yet. level yet. He is merely the facial expressions and

rates him according to the

- eye contact
- facial expression
- body movement
- (toward, away,
- vocal expression
- direction of attention

motor expression

following behavior: Examiner observes child and

- span of attention
- main constant)

is doing. Optimal performance here will be expressed as follows: observation of exactly what the child and will incorporate the examiner's Eyaluation is qualitatively based

- a. Eye contact has been achieved token," and with the other persons adult, unaffected adult, the adult by child with the environment, who is saying "You've earned a as listed in behavior column. child, the unhappy child, happy the happy child, the unaffected
- Facial expression changed in acemphasis is that an accurate p its accomplishment alone does not one evaluation item in this categor sufficiently or necessarily indicate of achieving more information but observing and not facially express pected here because it is quite tion of the persons and behaviors is intended to indicate successful the opposite behavior column. No forming the behaviors as listed in that the youngster is indeed perperformance is offered as a means plete match is not generally exthat observation. This index of child is rated as to the congruence cordance with the child's observapossible that a youngster could be expression of the person and beof his facial expression and the listed in Behavior column; the havior he is observing. A com-

children in the group who are happy Child observes some of the

children in the group who are unhappy Child observes some of the

children in the group who are unaffected by the first child's behavior. Child observes some of the

the rewarding. warded and the adult who is doing tween the child who is being re-Child observes the interaction be-

not rewarding and the child being between the other adult who is rewarded. Child observes the interaction

actions: Child observes the following inter-

- The happy child interacting with the happy child.
- The happy child interacting with the unhappy child
- the, unaffected child. The happy child interacting with
- 'The happy child interacting with the happy adult.
- The happy child interacting with the unhappy adult.
- The happy child interacting with The unhappy child interacting with the unaffected adult.
- the happy child.

RATIONALE

amining all the evaluative items ture of the youngster's perforin concert. mance can be gotten when ex-

- Span of attention is evaluative in following the event in order to other youngster. The attention achieve a high performance rating time of the event but not necesmust be directed at the particular attention focused on the event of the sense that the child has his here. sarily immediately preceding or the reward being given to the
- Body movement is noted by the child's positively active particicific movements that adds to the specific body movement that neither those specific movements that depation in observing the event, examiner in terms of those speadd nor detract from the child's participation in the event. active participation, and those tract from the child's positively
- Vocal expression is examined in of expression: "Jimmy looks happy;" terms of the content and manner "Sal looks sad."
- Direction of attention is noted by traneous events occurring in the on the event and not on other exexaminer. Child should be focused room at the same time.

PATIONALE

The shappy child interacting with the unhappy child.

- The inhappy child interacting with the unaffected child.
- The unhappy child interacting with the happy adult.
- The unhappy child interacting with the unhappy adult.
- The unhappy child interacting with the unaffected adult.
- The unaffected child interacting with the happy child.
- The unaffected child interacting with the unhappy child.
- The unaffected child interacting with the unaffected child.
- The unaffected child interacting with the happy adult.
- The unaffected child interacting with the unhappy adult.
- The unaffected child interacting with the unaffected adult.
- The happy adult interacting with the happy child.
- The happy adult interacting with the unhappy child.
- The happy adult interacting with the unaffected child.
- The unhappy adult interacting with the happy child.
- The unhappy adult interacting
- with the unhappy child.

 The unhappy adult interacting
- with the unaffected child.
- The unaffected adult intercating with the happy child.

g. Motor expression is noted. If child moves himself closer to the event, and is performing as indicated above, the examiner can be reasonably assured that the child is observing the event.

- The unaffected adult interacting with the unhappy child
- The unaffected adult interacting with the unaffected child.
- The happy adult interacting with the happy adult.
- The happy adult interacting with the unhappy adult.
- The happy adult interacting with the unaffected adult.
- The unhappy adult interacting with the happy adult.
- The unhappy adult interacting with the unhappy adult.
- The unhappy adult interacting with the unaffected adult.
- The unaffected adult interacting with the happy adult.
- The unaffected adult interacting with the unhappy adult.
- The unaffected adult interacting with the unaffected adult.

ronment. within the sum total of the enviof the interactions of persons The child observes the sum tota

chains of the happy child that are similar to the motor chains that he has experienced Child recalls previous motor

chains of the unhappy child. that are similar to the motor chains that he has experienced Child recalls previous motor

chains of the unaffected child that are similar to the motor chains that he has experienced Child recalls previous motor

chains of the happy adult. that are similar to the motor chains that he has experienced Child recalls previous motor

motor chains that are in the

youngster's repertoire. This

is offered as an instructional

that he has observed, "examine

offers the observation of past

specific motor chains of events (If youngster is unable to recal child received the token?" how all of us behaved when the a token?" "Do you remember,

chains of the unhappy adult. that are similar to the motor chains that he has experienced Child recalls previous motor

EVALUATION ITEM

to these motor chains that he to use this association to atcalls this type of motor chain Before he can attach meaning motor chain. associates the present motor tach meaning to the present past motor chains and begins chains with the meaning of past motor chains, then he recalls the meaning of these in his previous experience and has just observed, child re-

ner then asks, "Do you remem-

ponse from the child, exami-

ber when another child received

now remind you of anything you have seen before?" If Examiner asks the youngster this does not produce any res-"Does what you are seeing Examiner must ask the child tarify offer them. if the youngster does not volunto recall previous motor chains

happy adult, unaffected adult.

affected child, happy adult, un-

happy child, unhappy child, un-

match of motor chains of the

terms of appropriateness of

Examiner records youngster's

responses and rates them in

technique).

RATIONA LE

Child recalls previous motor chains that he has experienced that are similar to the motor chains of the unaffected adult.

Child recalls the meaning of these similar past motor chains.

Child associates the present motor chains that he is experiencing with the meaning of the past motor chains.

Child attaches meaning to the smiling gestures of the happy adult he has observed.

Child attaches meaning to the frowning gestures of the unhappy adult he has observed.

Child attaches meaning to the unaffected adult he has observed

has observed.

a result of the motor

chains of those that be

levels of happiness, etc.

child makes discriminations to differentiate the

that he has witnessed as

motor chains. Then the

attach meaning to these

Now the child begins to

child attaches meaning to the smiling gestures of the happy child he has observed.

Evaluator asks the child, "What meaning does that smile (frown, no look at all) have to you?"

Evaluator states to child,
"Sam, you have told me
what you remembered about
what smiles (frown, no look
at all) mean. How is what
you are now seeing the same
or different? Is what you
are now seeing, the same
as the smiles (frown, lack
of expression) you remembered?"

Examiner records the youngster's response and rates it according to the number of appropriate associations that the youngster is able to construct.

The question may or may not be necessary depending on the voluntary responses of the child. The examiner records the child's response and the appropriateness of the match between the response ponse of the youngster and the meaning of the similar past motor chains.

happy child he has observed. frowning gestures of the un-Child attaches meaning to the

affected child he has observed unaffected gestures of the un-Child attaches insaning to the

smiling. of the happy adult who is in meaning of the motor chains Child makes differentiations

who is frowning. meaning of the unhappy adult Child makes differentiations in

unaffected. the unaffected adult who appears meaning of the motor chains of Child makes differentiations in

the happy child who is smiling meaning of the motor chains of Child makes differentiations in

EVALUATION ITEM

RATIONALE

the youngster according to the to you now?" Examiner rates look at all) you are seeing mean does the smile (frown, or no Examiner asks youngster, "What appropriateness of response.

appropriateness of response rates youngster according to the adults (children)?" Examiner adult (child) with no look at all) happy (unhappy, adult (child) periences with happy (unhappy, dren) differ from your past exdo the smile and actions of the Examiner asks youngster, "How with no look at all) adult (chil-

Child makes differentiations in meaning of the motor chains of the unhappy child who is frowning

Child makes differentiations in meaning of the motor chains of the unaffected child who appears unaffected.

Child re-matches his own previous experiences and his present observation, association, attachment of meaning and differentiation of the motor chain of the

- -- happy child
- -- unhappy child
- -- unaffected child
- -- happy adult
- -- unhappy adult
- -- unaffected adult
- -- happy child interacting with happy child
- -- happy child interacting with unhappy child
- -- happy child interacting with unaffected child.
- -- happy child interacting with happy adult
- -- happy child interacting with unhappy adult
- -- happy child interacting with unaffected adult.

ciating reinforces and/or affectedness that he is experi-After the child makes discriion in order to operate in the perience with his previous exencing, he rematches that exminations as to the levels of tions and attachment of meannations, observations, and modifies the initial associadiscriminations. He is going naviors that he has witnessed he categorization of the benext step, which will involve to use these items of associaperience involving similar si The rematching and reasso-

Examiner asks the youngster, "Do the actions and faces of people that you remember looked happy (unhappy, or had no look at all) remind you, what you are seeing now in these persons' actions and faces? How is what you remember different from or the same as what you are seeing now?"

Examiner rates the child's response according to the appropriateness of the child's performance of rematching his own previous experiences with his present observation, associations, attachment of meaning and differentiation of the motor chain of the happy child, unaffected child, happy adult, unhappy adult, unhappy adult, and the interactions of these persons).

VIOR

- -- unhappy child interacting with happy child.
- -- unhappy child interacting with unhappy child.
- -- unhappy child interacting with unaffected child.
- -- unhappy child interacting with happy adult.
- -- unhappy child interacting with unhappy adult.
- -- unhappy child interacting with unaffected adult:
- -- unaffected child interacting with happy child.
- -- unaffected child interacting with unhappy child.
- -- unaffected child interacting with unaffected child.
- -- unaffected child interacting with happy adult.
- -- unaffected child interacting with unhappy adult.
- -- unaffected child interacting with unaffected adult.
- -- happy adult interacting with happy child.
- -- happy adult interacting with unhappy child.
- -- happy adult interacting with unaffected child.

EVALUATION ITEM

RATIONAL

-- unhappy adult interacting with happy child.

- unhappy adult interacting with unhappy child.
- unhappy adult interacting with unaffected child.
- unaffected adult interacting with happy child.
- unaffected adult interacting with unhappy child
- unaffected adult interacting with unaffected child.
- happy adult interacting with happy adult.
- happy adult interacting with unhappy adult.
- happy adult interacting with unaffected adult.
- -- unhappy adult interacting with happy adult.
- unhappy adult interacting with unhappy adult.
- unhappy adult interacting with unaffected adult
- --, unaffected adult interacting with happy adult.
- unaffected adult interacting with unhappy adult.
- -- unaffected adult interacting with unaffected adult.

RATIONALE

BEHAVIOR

of the happy child. tions of similar motor chains Child recalls past categoriza-

of the unhappy child. tions of similar motor chains Child recalls past categoriza-

of the unaffected child. tions of similar motor chains Child recalls past categoriza

of the unhappy adult. Child recalls past categorizations of similar motor chains

of the happy adult. tions of similar motor chains Child recalls past categoriza-

of the unaffected adult. tions of similar motor chains Child recalls past categoriza-

categorized.

sent motor chaings to be

gorizations with the pre-

then associates those cate

similar motor chain and past categorizations of chains, child now recalls

inforced meaning of motor

Having rematched and re-

gorized. sent motor chains to be catecategorizations with the pre-Child associates those past

RATIONALE

at all). You have told me how all)? Can you tell me why you tions that go along with a happy you tell me what are the acthey are different. Now can these smiles (frowns, no looks "You have told me some other Examiner states to the child at all) are the same and how looked happy (unhappy, no look times when some one's face have put these actions and looks face (unhappy face, no look at

RATIONALE

spontaneity of the youngster to in his general discourse inditain that the behaviors are inretrieve the items and ascerspecific questions geared to without resorting to asking obtain the above information gorizations. At times, it may appropriateness of the per-Examiner records and rates cate to the examiner, that he deed occurring. The child may, be possible depending on the formance in recall these catehas performed these behaviors

don't go together?" no look at all). Does what you with a happy face (unhappy face, into groups of what actions go that go together and those that actions, into faces and actions put faces and actions together Examiner states to child: You you are seeing now, the faces and have just told about how you

have told me help you to put what generally apply when assessing mation. This comment will same question are provided instead of expansive of inforwers may tend to be repetitive here as the youngster's ans-Different ways of asking the higher cognitive operations

observed. intensity the happiness of the motor chain that he has ceived experience of each individual according to the Child categorizes his per-

order to develop a hierdividuals according to the able to categorize his per-At this point the child is use this information in ceived experience of inintensity of happiness of has observed. He will the motor chain that he

observed. the motor chains that he has ceived experience of each intensity of unhappiness of individual according to the Child categorizes his per-

nas observed. ceived experience of each of the motor chain that he intensity of unaffectedness Child categorizes his perindividual according to the

EVALUATION ITEM

RATIONA LE

that go together?" me those actions and faces tions of the person you are Can you put together for seeing now go together?" Examiner asks the child, "How do the faces and ac-

is more happiness (unhappiness go together tell you that there gether?" faces and actions that go tono feeling at all) than other "What faces and actions that Examiner states to the child

RATIONALE

Child categorizes the sum total of the interactions of those who appear happy.

Child categorizes the sum total of the interactions of those who appear unhappy.

Child categorizes the sum total of the interactions of those who appear unaffected.

Child categorizes the sum total of interactions of the group in terms of a level of affectedness of motor chain observation.

Child recalls past hierarchies of motor chains that address themselves to levels of happiness.

Child recalls past hierarchies of motor chains that address themselves to levels of unhappiness.

Child recalls past hierarchies of motor chains that address themselves to levels of unaffectedness

Having made a categorization of these motor chains, the child recalls past hierarchies that address themse ves to levels of happiness, unhappiness and unaffectedness.

Child uses these recollections to associate to the motor chains under examination in order to set up a hierarchy.

Examiner states to the child: "You have told me, about how membered went together. faces and actions told you the actions and faces you re ones told you that there was You have also told about which you that there was a little bit that there was the most happy no feeling at all) in them. much happiness (unhappiness at all). Which actions and Now tell me which of those that were the most happy (unno feeling at all) than the ones faces that went together thic ness (unhappiness, no feeling less happiness (unhappiness,

happy, unfeeling). Tell me which actions and faces, while they still told you that they were happy (unhappy, unfeeling), showed the least happiness (unhappiness, no feeling at all) out of all the actions and faces that were happy (unhappy, had no feeling at all)."

at all). Tell me about the actions of happiness (unhappiness, po feeling about how the actions and faces that you there was less. Now tell me and actions told you that there was Examiner states to the child: "You happiness (unhappiness, no feeling still told you that they were happy ones you remembered that were less you are now seeing are the same as the greatest happiness (unhappiness have just talked about which faces they contained the least amount of happy (unhappy, unfeeling), and that there was the greatest amount no feeling at all) and those that fold about the actions and faces that and faces that are the same as the the actions and faces that told you (unhappy; unfeeling) even though

2

Child associates the recollections of past motor chain hierarchies of happiness with the categorizations of the present motor chains indicating

Child sets up a hierarchy of adult motor chains that lead to expressions of happiness, using the associations above.

Child sets up a hierarchy of adult motor chains that lead to expressions of unhappiness using the association above.

Child sets up a hierarchy of adult motor chains that lead to expressions of unaffected, using the associations above.

Child sets up a hierarchy of child motor chains that lead to expressions of happiness, using the associations above.

Child sets up a hierarchy of child motor chains that lead to expressions of unhappiness using the associations above.

Child sets up a hierarchy of child motor chains that lead to expressions of unaffectedness, using the associations above.

Child decodes the words that he hears spoken by the happy adult into appropriate syntax. (see pre-entry skills)

At this point the child is setting up a hierarchy of the levels of affectedness that he has observed based on observable motor chain experiences

all)? Which actions and faces that still tell you that there is happiness that there is a little bit less happiat all)?" you that there is the least amount of (unhappiness, no feeling at all) tell ness (unhappiness, no feeling at happiness (unhappiness, no feeling Which actions and faces show you tell you that he is the most happy (unhappy, or has no feeling at all) tell you that a person is happy that you have put together that me which of the actions and faces Examiner states to child: "Tell (unhappy, has no feeling at all).

As the child is completing the Examiner asks the child, "What steps that are involved in ana-did that person say? (identifying lyzing the motor chains that he happy adult, unhappy adult, he has observed, he also is moving into the area of verbal unhappy child, unaffected child)."

that Gagne speaks of, and the

malysis thereo

In order to ascertain the child's performance in understanding the liberal message of the particular person's verbal chain, the child must be able to re-state what was said, or state the management of what was said.

adult into appropriate syntax hears spoken by the unaffected Child decodes the words that he

words that he hears spoken by the child being rewarded. Child decodes into syntax the

syntax the words that he hears spoken by the happy child Child decodes into appropriate

child into appropriate syntax hears spoken by the unhappy Child decodes the words that he

meaning).

child into appropriate syntax hears spoken by the unaffected Child decodes the words that he

1 m

of other happy adult, as well as tions and hierarchies their/associations, categoriza-Child recalls past verbal chains

as their associations, categoriof other unhappy adults, as well zations and hierarchies Child recalls past verbal chains

gorizations, and hierarchies. well as their associations, cateof other unaffected adults, as Child recalls past verbal chains

of other unaffected children, as Child recalls past verbal chains well as their associations, cate-

> "meaning" (a lower level of verbal chains into literal The child now is decoding the

spoken by other persons that, recall other verbal chains when decoded, produce a simi-The words that the child now lar literal meaning.

hears triggers the youngster to "Can you remember what an feeling at all) to let you know told you that they were still bit less happy (unhappy, no other person said when they piness (vuhappiness, no feeling tained the least amount of hapat all) but that the words confeeling at all). Which words told you that they were a little that they were happy (unhappy were happy (unhappy, had no Examiner states to the child: happy (unhappy, had no feeling had no feeling)? Which words at all) in them?"

EVALUATION ITEM

ATIONALE

gorizations and hierarchies.

Child recalls past verbal chains of other happy children, as well as their associations, categorizations and hierarchies.

Child associates meaning of the verbal chains of the happy adult with the meaning of the past verbal chains that were uttered by other happy adults in the child's experience and were categorized by the child according to intensity of happiness expressed.

Child associates meaning of the verbal chains of the unhappy adult with the meaning of past verbal chains that were uttered by other unhappy adults in the child's experience and were categorized by the child according to intensity of unhappiness expressed.

chains.

meaning of past verbal

meaning of these present verbal chains with the

The child associates the

Child associates meaning of the verbal chains of the unaffected adult with the meaning of past verbal chains that were uttered by other unaffected adults in the child's experience and were cate gorized by the child according to intensity of happiness expressed.

Child associates meaning of the verbal chains of the unhappy children with the meaning of past

Examiner asks the child: "How are the words you remembered that told you that there was happiness (unhappiness, no feeling at all) the same as the words you are hearing now that tell you there is happiness (unhappiness, no feeling at all)?"

verbal chains that were uttered by other unhappy children in the child's experience and were categorized by the child according to intensity of happiness expressed.

Child associates meaning of the verbal chains of the unhappy children with the meaning of past verbal chains that were uttered by other unhappy children in the child's experience and were categorized by the child according to intensity of happiness expressed.

Child associates meaning of the verbal chains of the happy children with the meaning of past verbal chains that were uttered by other happy children in the child's experience and were categorized by the child according to intensity of happiness expressed.

Child associates meaning of the verbal chains of the unaffected children with the meaning of past verbal chains that were uttered by other unaffected children in the child's experience and were categorized by the child according to intensity of happiness expressed.

Child discriminates among the verbal chains of the happy adult as to the level (intensity) of happiness, matching them against his past associations and categorizations as above.

Child discriminates among the verbal chains of the unhappy adult as to the level (intensity) of unhappiness, matching them against his past associations and categorizations as above.

Child discriminates among the verbal chains of the unaffected adult as to the level (intensity) of unaffectedness, matching them against his past associations and categorizations as above.

Child discriminates among the verbal chains of the unhappy child as to the level (intensity) of unaffectedness, matching them against his past associations and categorizations as above.

Child discriminates among the verbal chains of the unaffected child as to the level (intensity) of unaffectedness, matching them against his past associations and categorizations as above.

He begins to discriminate among the verbal chains, noting the level of affectedness that each verbal chain contains having matched them against his past associations and categorizations as above.

Examiner asks the child: "Tell ame which words that you are hearing now tell you that the person is the most happy, (unhappy, no feeling at all)? Which words tell you that there is a little bit less happiness (unhappiness, no feeling at all). Which words tell you that there is the least amount of happiness (unhappiness, no feeling at all) although there is still some happiness (unhappiness, no feeling at all).

verbal chains of the happy child against his past associations as to the level (intensity) of unand categorizations as above affectedness, matching them Child discriminates among the

matching them against his past categorizations. words into levels of happiness Child categorizes the decoded

his past categorizations. ness, matching them against words into levels of unhappi-Child categorizes the decoded

words into levels of unaffected his past categorizations. Child categorizes the decoded ness, matching them against

> cognitive hierarchy of the zations. This behavior en-At this point, the child cate expressed in the verbal levels of happiness that are ables him to then set up a recalled previous categorimatching them against the the decoded words suggest gorizes the decoded words into levels of happiness that

the same as the words you re happiness, no feeling at all), have just told me how some of Examiner asks child: "You ness (unhappiness, no feeling test amount of happiness (unfeeling at all) and how some happiness (unhappiness, no that there is a little bit less greatest amount of happiness now tell you that there is the a little bit less happiness (un that you have just heard are the words that you are hearing and the least amount of happi membered as having the grea Now tell me how these words happiness, no feeling at all). least amount of happiness (unwords tell you that there is the and how other words tell you happiness, no feeling at all) (unhappiness, no feeling at all)

EVALUATION ITEM

affectedness, matching them of the interaction of the decoded against his past categorizations words into a sum total level of Child categorizes the sum tota

chies that have been recalled with previous similar hierarpiness, matching constantly that lead to expressions of haparchy of adult verbal chains Child sets up a cognitive hier-

with previous similar hierthat lead to expressions of unarchy of adult verbal chains happiness, matching constantly archies that have been recalled Child sets up a cognitive hier-

vious similar hierarchies that matching constantly with prehave been recalled. expressions of unaffectedness, adult verbal chains that lead to Child sets up a hierarchy of

> chains indicate, always setting up a cognitive hier At this point, the child is matching his constructions with previous similar hierfectedness that the verbal archy of the levels of afarchies in his repertoire.

> > Examiner asks the child: "Tell

words tell you that there is more at all in the room; whether all the being said, I want you to think of you are hearing the words that are than happiness or unhappiness in whether what you hear means that feeling at all in the room, or unhappiness than happiness or no Examiner states to the child: "As there is no feeling at all, rather ness than unhappiness or no feeling tell you that there is more happithat the words you are bearing you would say whether you think them all together. Now tell me if

happy (unhappy, unfeeling)?" bit less happiness (unhappiness, the persons in the room. Which ness, no feeling at all) yet still was bit less happy (unhappy, unfeeling)? me which statement made by one last one? Which one showed the ness (unhappiness, feeling) than the statement showed even less happifeeling) than the last one? Which Which statement showed a little tells you that he was just a tiny statement made by one person lutely no feeling at all) out of all person told you that he is the happiest (unhappiest, had absoleast amount of happiness (unhappi

Child sets up a cognitive hierarchy of child verbal chains that lead to expressions of happiness, matching constantly with previous similar hierarchies that have been recalled.

Child sets up a cognitive hierarchy of child verbal chains that lead to expressions of unhappiness, matching constantly with previous similar hierarchies that have been recalled.

Child sets up a cognitive hierarchy of child verbal chains that lead to expressions of unaffectedness, matching constantly with previous similar hierarchies that have been recalled.

Child sorts out how his observations of the behaviors and interactions match the motor and verbal hierarchies he has set up and his previous experience.

Having set up a hierarchy of motor chains and verbal chains that denote the levels of affectedness that he has experienced, the child must now sort out how the interactions of the motor and verbal chains add to or take away from the belief that he can place in the hierarchies that he has set up.

Examiner asks the child: "You have told me about how you are now thinking of the actions, faces and words that you are seeing. How are they the same as what you thought about actions, faces and words that told you some one was happy (urhappy, had no feeling at all) in the past?"

experience. assigned to similar previous values that he had previously Child recalls the cognitive

child recalls what cognitive past for a similar item. value to a new experience, the In order to assign a cognitive value has been assigned in the

tive values with the items to "now associates those cognibe assigned a cognitive value previous cognitive values, The child, having recalled

the items that are to be asvious cognitive values with signed a cognitive value now Child associates these pre-

you liked to see smiles (frowns How important have you thought words with no feeling) words? (frowns, looks with no feeling) tered to you to see smiles' feeling) words many times during and to hear happy (unhappy, the day? How much has it mathappy (unhappy, words without looks of no feeling) and hear Examiner asks child: "Have

faces, actions, the same (different)? spoken about and the present words ones in your past that you have the words, faces and actions, the Examiner asks child, "How are

feeling) words many times during no feeling) words? How important to you to see these smiles (frowns the class? How much does it matter looks of no feeling) and hear these do you think all of this is?" these happy (unhappy, words with happy (unhappy, words without like to see these smiles (frowns, Examine reasks the child: "Do you looks with no feeling) and to hear

cognitive values.

and association of previous archies, as well as the recall

chains and his established hierserved, using previous S-R

tion and in context, he has obto all the behaviors, in isolanegative to positive in regard according to a continuum of

Child assigns cognitive values

discriminations, the categorizathe experience of coserving, tions, and hierarchies including the associations, the The child assigns a value to

- -- the happy child
- the unhappy child
- the unaffected child
- the happy adult
- the unhappy adult
- the unaffected adult
- happy child happy child interacting with
- unhappy child happy child interacting with
- happy child interacting with unaffected child.
- happy child interacting with
- unhappy adult happy child interacting with nappy adult
- happy child interacting with unaffected adult
- happy child unhappy child interacting with
- unhappy child unhappy child interacting with
- unhap py child interacting with unaffected child

experiences. that were attached to similar account previous cognitive values new experiences, taking into signs a cognitive value to these Using matching, the child us-Examiner states to the child:

have a good thought or a bad persons acting in many different in the Behavior Column) do you child (substitute all of the persons "You are seeing many different ways. When you see the happy

RATIONALE

- unhappy child interacting with happy adult
- unhappy adult unhappy child interacting with
- unhappy child interacting with unaffected adult
- -- unaffected child interacting with happy child
- unaffected child interacting with unhappy child
- unaffected chi ld interacting with unaffected child
- unaffected child interacting with happy adult
- unaffected child interacting with unhappy adult
- unaffected child interacting with unaffected adult
- happy adult interacting with
- happy child
- unhappy child happy adult interacting with
- happy adult interacting with unaffected child
- unhappy adult interacting with happy child
- unhappy adult interacting with unhappy child
- unhappy adult interacting with unaffected child

- -- unaffected adult interacting with happy child
- -- unaffected adult interacting with unhappy child
- unaffected adult interacting with unaffected child
- happy adult interacting with happy adult
- -- happy adult interacting with unhappy adult
- happy adult interacting with unaffected adult
- unhappy adult interacting with happy adult
- unhappy adult interacting with unhappy adult
- unhappy adult interacting with unaffected adult
- unaffected adult interacting with happy adult
- unaffected adult interacting with unhappy adult
- -- unaffected adult interacting with unaffected adult.

Child recalls the positive reinforcement of similar behaviors that he has experienced in the past.

Child now is recalling the positive reinforcement he has observed and/or experienced in the past.

Examiner asks the child, "Can you remember anyone who rewarded you for doing the same kind of action?"

BEHAVIOR

Child recalls the positive reinforcement of similar behaviors that he has observed that others have experienced in the past.

Child recalls the intensity of effort that was required and the intensity of reward that followed the extension of effort in his past.

In order to make a decision as to whether a behavior is worth the effort that he must expend, the child recalls his past and other persons' past experiences that relate to the above.

Child recall's the intensity of effort that was required and the intensity of reward that followed the extension of effort in regard to his observation of other persons' past experiences.

Child recalls his observation of others' affective reactions undergoing similar experiences.

Child recalls his observation of his own affective reactions when he was undergoing similar experiences.

NALE

EVALUATION ITEM

Examine r asks the child, "Can you remember watching someone else being rewarded for doing the same kind of action?"

Examiner asks the child, "Can you remember how hard you tried so that you could get a reward? Can you remember how good you thought the reward was?"

Examiner asks child, "Can you remember how hard you thought another person tried so that he could get a reward? Can you remember how good you thought the reward was?"

Examiner asks the child, "Can you remember how these persons looked and what they said when they got a reward? How did what they did show you how they felt? What did they say, what did they do?"

Examiner asks the child, "Can you remember how you acted, what you said, what you did when you were rewarded for the same thing? How did what you said and did show other people how you felt about getting the reward?

EVALUATION ITEM

affective experiences with the present experience. Child associated his previous

situation in terms of expected effort that is required and the expected intensity of the reward Child evaluates the present

to the pursuit of a similar reward and the antecedent behavior required-for the reward. Child assigns a cognitive value

quired for the reward. and the antecedent behavior reto the pursuit of a similar reward Child assigns an affective value

reward for a similar behavior Child decides to seek a similar

> you thought about it. What is here?" you have earned a reward help you the same about what you are have just told me how getting a to understand what is taking place reward made you feel and what Examiner asks the child: "You seeing now? Does the fact that

child to get the reward right now? hard do you think it was for this How good do you think the reward is?" Examiner asks the child, "How

rewarded for it means something to think that doing something and being think it means to you?" you? Can you tell me what you Examiner asks the child: "Do you

rewarded for it means something feel that doing something and being does it me an to you?" to you in this classrcom? How much Examiner asks the child, "Do you

reward like this?" decided to act the same way to get a Examiner asks the child, "Have you

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